

Blades Groundwater Site (Procino Plating and Peninsula Plating)



U.S. Environmental Protection Agency, Region 3

RDT Meeting, Summer, 2018

By: Connor O'Loughlin

Good Evening, Thank you everyone for participating in this Site Meeting for the [Nonresponsive based on revised scope].

- My name is Connor O'Loughlin. I am the Site Assessment Manager for the USEPA for this site.
- This evening I will be sharing with you some of the details of the [Nonresponsive based on revised scope] site and the adjacent areas.



Purpose of the Meeting:

Decision needed: Would EPA management support the NPL listing?

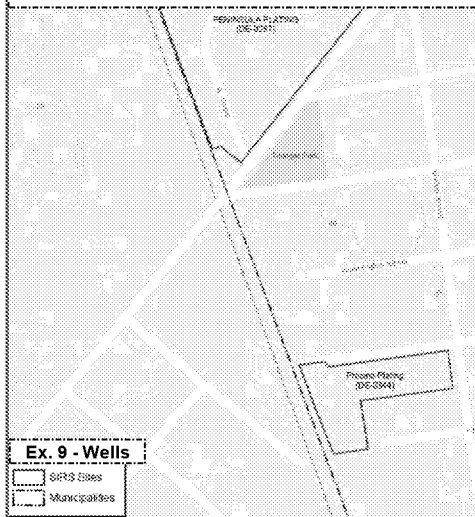
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Ex. 9 - Wells



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Ex. 9 - Wells



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Residential Wells Sampling

Ex. 9 Wells

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Site Situation:

Where is the PFAS contamination coming from?

- PFAS contamination found in three public wells near two industrial plating facilities. PFAS contamination recently detected in nine of 50 residential wells. The Town of Blades installed a treatment system on the wells in February 2018 in response to the elevated levels.
- Procino Enterprises is conducting an RI under DNREC's voluntary cleanup program (VCP). EPA identified the use of PFAS containing *Fumetrol* 140 at the Procino electroplating facility and chromium tetrafluoroborate use in the former Peninsula Plating facility.
- Further assessment is continuing to determine the source(s) of this contamination. The contamination from both facilities may be comingled containing PFAS, chromium, and cyanide. Both facilities used various plating processes, Procino Plating has identified plumes of chromium and cyanide in several residential wells.

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Sample Results:

- Public well results:
 - 3 wells had results exceeding the combined PFOA/PFOS - HAL.
 - Drinking Water - 193.0, 117.5, and 96.2 (ppt)
- Residential well results:
 - Nine wells had concentrations above the HAL. Delaware installed treatment for the residential wells. 1 well had a maximum concentration of 364 ppt.
 - EPA still conducting assessment of the groundwater plume.

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Procino Plating Background:

- Procino Plating Inc. operates ornamental plating with copper, nickel and chrome; silver and nickel plating for commercial and military use; and fabrication of hard chrome plating of griddle tops since the 1980's.
 - RCRA (1994, 2002, 2007, 2008/2009), Removal (2008), Criminal Investigation (2009-2013)
 - EPA Preliminary Assessment (2010), EPA Site Inspection (2011)
 - Deferred to DNREC for investigation and cleanup (2011)
 - Remedial Investigation (2011-2016), Ongoing RI – State VCP.
 - Spring of 2016, EPA's new Site Assessment manager reviewed the PA/SI documents and identified in site photographs the presence of Fumetrol 140 (wetting agent) containers in the facility.

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Peninsula Plating Background:

- Peninsula Plating Inc. manufactured ornamental plating with copper, nickel and chrome; silver, nickel, cadmium plating for commercial use; and fabrication. The facility operated from 1992 to 1995.
 - Fire at the facility prompted investigation (1995). DNREC gained a search warrant to go into the property. EPA OSC inspected the facility.
 - Emergency Removal Action (August 1995 to December 1995).
 - EPA Site Inspection (1996, 1999)
 - Site was NFRAP'd (1996).
 - The wastes and soils were addressed but groundwater was not assessed. The owners were supposed to address the groundwater during the brownfield redevelopment.
 - Brownfield Redevelopment (2006-2007), Leaking Tanks Removed (2007)
 - State deferred, VCP- RI/FS (2006-2007)
 - Site closed in 2010.

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State of Delaware:

EPA has reviewed of all the available data and believes there is a continued threat to groundwater. The State has verbally indicated and concurs with the assessment and the proposal of the site to the NPL.

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The Case for NPL Listing:

Ex. 5 Deliberative Process (DP)

- Abundant potential source soils at the two facilities
- Groundwater samples exceed the HAL for PFAS, and MCL for chromium
- Inadequate controls and no remediation of groundwater to date
- Known contamination of the groundwater and soil.
- Threats to the surface water (human food chain, wetlands)

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Proposed Path Forward:



Ex. 5 Deliberative Process (DP)

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Would EPA support the proposed NPL listing?